EE / CPR E/ SE 491 - Bi-Weekly Report #2

***Dates:*** 9/1/2020 - 9/14/2020

***Group Number:*** sddec20-13

***Project Title:*** My (Musical) Life

***Client & Advisor:*** Dr. Henry Duwe

***Team Members:***

Christian Hernandez - Project Manager

Chaz Clark - iOS Developer

Daksh Goel - Backend Developer

Vatsal Bhatt - Backend Developer

Vignesh Krishnan - Frontend Developer

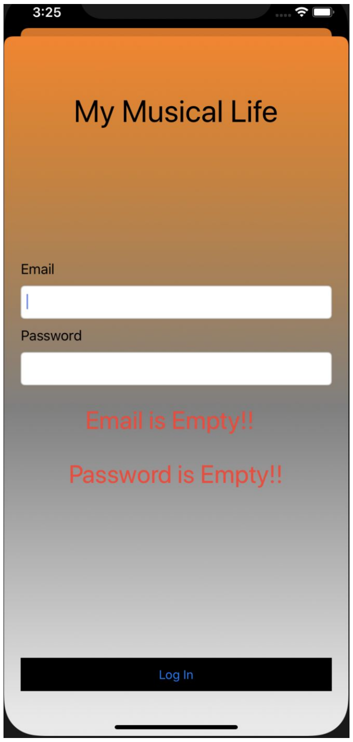
## Weekly Summary

During the past couple of weeks, the team has made great strides in the development of the app. The frontend and the backend are connected. We are able to sign up a user and store the user's information to the database. The sign-up page has been implemented, some lambda functions have been developed, Secrets Manager was implemented to hide database credentials, etc. Additionally, bins in the backend are connected to users. The bins will be used for generating music. Overall, the team has been doing well. The backend and frontend are connected and continuously being improved.

## Past Week Accomplishments

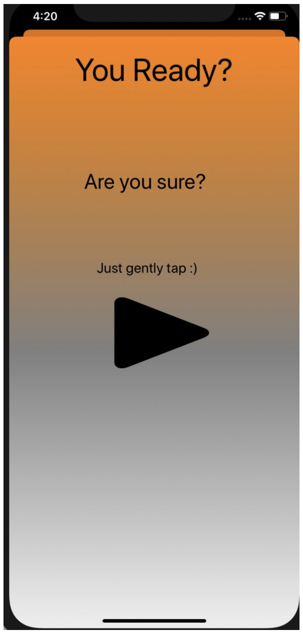
- Christian

- Finished the background colors of the app. The colors that we are using are gradient colors that consist of orange and gray.
- Created some segues from the sign up page and the log in page so that when a user clicks on the log in or sign up button, the page will change to the home page
- Finished the UI for the home page. This includes some text and a play button.
- Develop some error handling for the sign-up page. The user must add something in the text boxes in order to move to the home page. Otherwise, an error will occur
    - If the email exists but no password, only “Password is Empty” will show. If the password exists but no email, only “Email is Empty” will show. If both are empty, both “Password is Empty” and “Email is Empty” will show.
- Login Page

    - 

Email is Empty!!

Password is Empty!!

  - Home Page
    - 

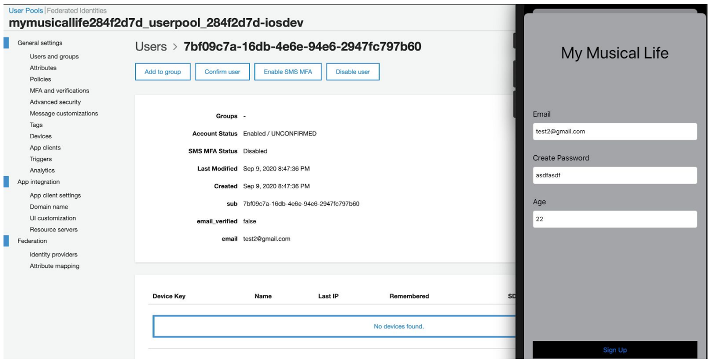
Are you sure?

Just gently tap :)

  - Began setting up some unit tests for the UI

        - Ran into issues with trying to build the UI tests. Currently, the tests cannot find the SignUpViewController. After lots of research, this error is still occurring. The goal is the have this figured out soon.

- Chaz
    - Implemented Sign Up for front end
    - Integrated AWS Amplify framework for project



mymusicallife284f2d7d_userpool_284f2d7d-iosdev

Users > 7bf09c7a-16db-4e6e-94e6-2947fc797b60

| | |
|---|---|
| Groups | - |
| Account Status | Enabled / UNCONFIRMED |
| SMS MFA Status | Disabled |
| Last Modified | Sep 9, 2020 8:47:36 PM |
| Created | Sep 9, 2020 8:47:36 PM |
| sub | 7bf09c7a-16db-4e6e-94e6-2947fc797b60 |
| email_verified | false |
| email | test2@gmail.com |

| Device Key | Name | Last IP | Remembered | SD |
|---|---|---|---|---|
| No devices found. | | | | |

My Musical Life

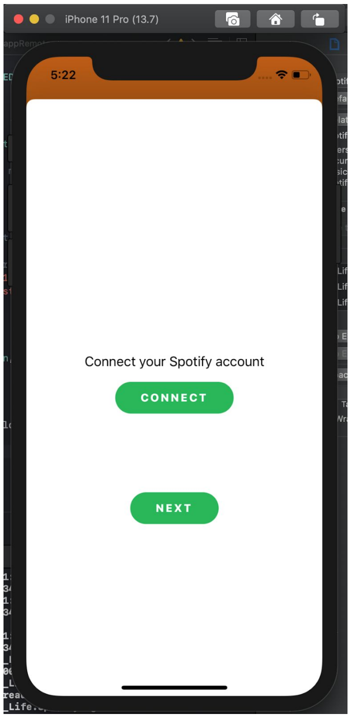
Email: test2@gmail.com

Create Password: asdfasdf

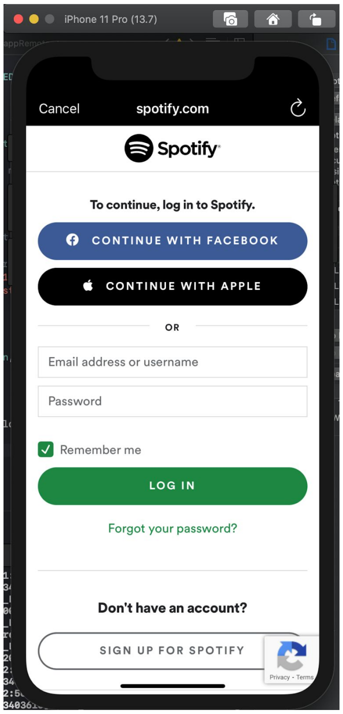
Age: 22

- Daksh
    - Added InsertBin lambda function
    - Created API Gateway Integration, Route, and Permission
    - Updated rest api yaml file in AWS CloudConverter
- Vignesh
    - Created API Gateway REST API for triggering AWS lambdas
    - Modified existing lambdas to work with API Gateway
    - Used AWS CloudFormation template to deploy necessary integrations, routes, and permissions for API Gateway to interface with existing backend lambdas
    - Tested REST API on Postman

   - Implemented insertUser function in swift to call REST API and insert user into DB when sign up button is clicked
- Vatsal
   - Implemented Secrets Manager with AWS Lambda to hide Database credentials
   - Cleaned up backend Lambda functions in AWS and helped connect backend with frontend.
   - Integrated Spotify API in Xcode and implemented Spotify Login

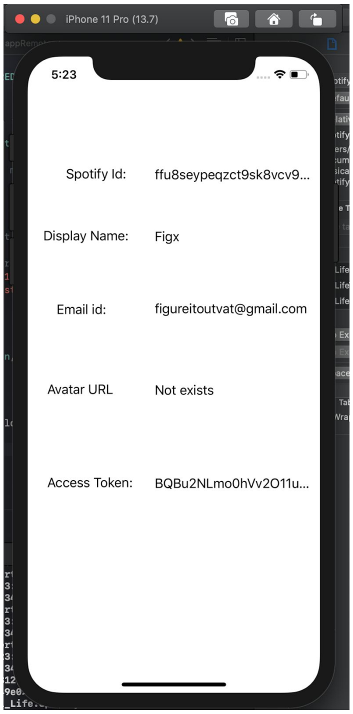


Connect your Spotify account



To continue, log in to Spotify.

Don't have an account?



Spotify Id: ffu8seypeqzct9sk8vcv9...

Display Name: Figx

Email id: figureitoutvat@gmail.com

Avatar URL Not exists

Access Token: BQBu2NLmo0hVv2O11u...

## Pending Issues

The team is having an issue with posting documents to the team website. Christian has sent an email to etg@iastate.edu.

**Individual Contributions**

| NAME | INDIVIDUAL CONTRIBUTIONS | HOURS THIS WEEK | HOURS CUMULATIVE |
|---|---|---|---|
| Christian Hernandez | 1. Implemented background design of app<br>2. Developed error handling for the login page<br>3. In the process of developing UI unit tests | 6 | 13 |
| Chaz Clark | 1. Added AWS Amplify to Xcode Project<br>2. Set Up User Pools<br>3. Integrated Sign up functionality | 6 | 12 |
| Daksh Goel | 1. InsertBin lambda function<br>2. Added integration, routes, and permissions | 6 | 12 |
| Vatsal Bhatt | 1. AWS Secrets Manager to hide Database credentials<br>2. Setup Spotify API with swift<br>3. Implemented Spotify Login page | 6 | 12 |
| Vignesh Krishnan | 1. API Gateway REST api set up<br>2. Sign up in swift function to insertUser into db | 6 | 12 |

**Comments and extended discussions (Optional)**

N/A

**Plans for the Upcoming Week**

- Christian
  - Finish setting up UI testing
  - Begin developing more unit tests that will test our functional requirements
  - Review and update the design document
- Chaz
  - Add Login Functionality
  - Assist in making Spotify playback controller
- Daksh
  - Continue to build out Bins/Songs functionality
  - Update API gateway to connect API to Lambda functions
- Vatsal
  - Continue working with Spotify API and implement music player
  - Work with AWS lambdas and database to store spotify data
  - Begin working with iPhone data and user permissions
- Vignesh
  - Implement REST api call in swift for user login and authentication as well

    - Clean up sign up functionality code
    - Create authorization for API Gateway REST api (api key in header)

**Summary of Weekly Advisor Meeting**

During the past two weeks, the team has met with Dr. Duwe twice. The first meeting with Dr. Duwe went well. This meeting occurred on 9/3, and we provided Dr. Duwe some feedback regarding the status of our project. He asked questions about our functional requirements and gave us advice on how to approach any issues the team brought to him.

The second meeting consisted of giving status updates of the app. The team walked through some of the changes that have been made since the last time the team spoke with him. This involved showing demonstrating the app using an emulator. The one area Dr. Duwe really emphasized during this past meeting was testing. Rather than doing performance testing, regression testing, etc., he wants the team to solely focus on testing the functional requirements. The team needs to ensure the functional requirements, as listed in the design document, are working. He also would like the team to update the design document with any information that needs to be added. For example, the testing section of the design document should be adjusted.